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1. [DHP15B-001: Conversion to Universal Plasma](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Demand for plasma-based therapies continues to rise. In the US alone, there were ~29 million donations of plasma in 2013¹. Plasma-based therapies are also in high demand in the military. Warfighters with combat casualties often require massive plasma transfusions for trauma, shock, burn injury, and emergency surgery. Today, only Type AB blood donors, who account for only 4% of the overall donor po ...

STTR Defense Health Program Department of Defense

2. [DHP15B-002: Laser and Lightwave Therapies for Wound Healing Application](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Since 8 December 2007, the war in the Middle East has seen over 30,000 soldiers injured in combat with the majority of these injuries occurring the last few years [1]. Despite the type of the injury, the majority of the wounded have suffered some degree of soft tissue injury which needs to be addressed. Since these soldiers endure harsh conditions and their wounds are much more likely to become in ...

STTR Defense Health Program Department of Defense

3. [DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV](#)

Release Date: 04-24-2015 Open Date: 05-26-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

STTR Defense Microelectronics Activity Department of Defense

4. [ST13B-001: Advanced Tools for Mammalian Genome Engineering](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Improve the utility of Human Artificial Chromosomes (HACs) by developing new selectable metabolic markers for use in human cells, new high-fidelity methods for inserting DNA constructs of at least 50,000 base pairs (bp) in length into defined genomic loci, and new methodologies for facile intercellular genome transplantation. DESCRIPTION: The ability to deliver exogenous DNA to mamma ...

STTR Department of Defense Defense Advanced Research Projects Agency

5. [ST13B-002: Quantum Dot Mid-Wave Infrared Focal Plane Array](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop a mid-wave infrared (MWIR) focal plan array (FPA) using quantum dots for next-generation night vision. DESCRIPTION: Historically, night vision has provided the United States Armed Forces with an asymmetric tactical advantage in combat operations. However, the tradeoffs of low sensitivity (microbolometers), high power consumption (active cooling), or specialized consumables (...

STTR Department of Defense Defense Advanced Research Projects Agency

6. [ST13B-003: Multiferroic Materials for RF Applications](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Demonstrate RF/microwave devices, components, and circuits based on multiferroic composite structures. Design discrete devices for radio and radar with a new tunability feature that adds to the performance over conventional RF/microwave components by leveraging the voltage-tunable frequency response of multiferroics. Demonstrate voltage tunable devices with performance equal to or bet ...

STTR Department of Defense Defense Advanced Research Projects Agency

7. [ST13B-004: Data-Parallel Analytics on Graphics Processing Units \(GPUs\)](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Explore the space of data-centric problems and algorithms that lend themselves to high-performance implementation on GPUs; develop a high-level language for easy programming of GPUs; and develop a product that can support real-time, quantitative analysis of a wide variety of data using the cost and energy efficient compute capabilities of GPUs and other relevant many core architectures. ...

STTR Department of Defense Defense Advanced Research Projects Agency

8. [MDA13-T001: Decision Making under Uncertainty](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Analyze the impact of sensor measurement uncertainties on centralized data fusion and design optimal strategies to mitigate the associated target classification. DESCRIPTION: This topic solicits innovative approaches to characterize target sensor measurement uncertainties and to design effective sensor architectures to aid uncertainty mitigation (e.g. whether sending measurements or ...

STTR Department of Defense Missile Defense Agency

9. [MDA13-T002: Micro-Particle Debris Characterization from Hyper-Velocity Impacts](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop innovative, laboratory-based methods to measure and characterize (i.e. size, number, temperature etc.) the small particles less than 1 cm generated in hyper-velocity impacts. Those methods should provide benchmark data for physics-based impact debris prediction codes aimed at modeling electro-optical / infra-red (EO/IR) impact flash signatures. The methods may include sensor ...

STTR Department of DefenseMissile Defense Agency

10. [MDA13-T003: Enhancement of Ballistic Missile Defense System Level Simulation Operations Through Multi-core Processing](#)

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop technology to enhance the Missile Defense Agency's (MDA) Ballistic Missile Defense System (BMDS) simulation operations through the employment of multi-core processing environments. DESCRIPTION: With the introduction of the Objective Simulation Framework (OSF), the BMDS enterprise-level simulation has the potential to present a more realistic and complex missile defense sc ...

STTR Department of DefenseMissile Defense Agency

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